

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	685	606/167.ccls. and (vacuum aspirat\$3 suction)	US-PGPUB; USPAT	OR	OFF	2010/03/24 13:59
L16	478	(endoscope catheter) same (sensor\$1) same (pressure) same (adjust \$4 chang\$4) and (suction vacuum)	US-PGPUB; USPAT	OR	OFF	2010/03/24 15:17
L17	67	(endoscope) same (sensor \$1) same (pressure) same (adjust\$4 chang\$4) and (suction vacuum)	US-PGPUB; USPAT	OR	OFF	2010/03/24 15:18
L18	144	(endoscope) same (sensor \$1) near (pressure optical optic\$2 light acoustic electrical ultrasonic) same (adjust\$4 chang\$4)	US-PGPUB; USPAT	OR	OFF	2010/03/24 15:27
L19	73	(endoscope) same (sensor \$1) near (pressure optical optic\$2 light acoustic electrical ultrasonic) same (adjust\$4 chang\$4) and (suction vacuum)	US-PGPUB; USPAT	OR	OFF	2010/03/24 15:27
L20	384	(endoscope catheter) same (sensor\$1) same (pressure) same (suction vacuum)	US-PGPUB; USPAT	OR	OFF	2010/03/24 15:32
L21	80	(endoscope catheter) same (sensor\$1) same (pressure) same (suction vacuum) same tissue	US-PGPUB; USPAT	OR	OFF	2010/03/24 15:39
L22	46	(endoscope catheter) same (sensor\$1) near (pressure contact) same (suction vacuum) same tissue	US-PGPUB; USPAT	OR	OFF	2010/03/24 15:42
L26	0	(endoscope catheter) same (detector\$1) near (pressure contact) same (suction vacuum) same tissue	US-PGPUB; USPAT	OR	OFF	2010/03/24 16:10

L27	1	(endoscope catheter) same (detector\$1) same (pressure contact) same (suction vacuum) same tissue	US-PGPUB; USPAT	OR	OFF	2010/03/24 16: 11
L28	151	(endoscope catheter) same (detector\$1) same (pressure contact) same tissue	US-PGPUB; USPAT	OR	OFF	2010/03/24 16: 11
L39	6	("20030171664") or ("6728565") or ("20040176683") or ("5097834") or ("5191878") or ("5427114").PN.	US-PGPUB; USPAT	OR	OFF	2010/03/24 16: 35
L48	297	(endoscope catheter) same (sensor\$1 detector \$1 electrode\$1 transducer \$1) same (pressure contact) same tissue same (suction vacuum)	US-PGPUB; USPAT	OR	OFF	2010/03/24 17: 16
L49	75	606/167-185.cls. and (sensor\$1 detector\$1 electrode\$1 transducer \$1) same (pressure contact) same tissue same (suction vacuum)	US-PGPUB; USPAT	OR	OFF	2010/03/24 17: 19
L50	37	("3912168" "3993054" "4203444" "4555645" "4561431" "4604089" "4635621" "4679596" "4911161" "5269798" "5286253" "5364395" "5403276").PN. OR ("5669876").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2010/03/24 17: 22
S1	7	((HEINZ) near2 (RUPP)). INV.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15: 30
S2	3	((BERNHARD) near2 (MAISCH)).INV.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15: 30
S3	1	((EKKEHARD) near2 (SCHULER)).INV.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15: 30
S4	100	((MICHAEL) near2 (KOCH)).INV.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15: 30
S8	1	wo-0235986-\$ did.	USPAT; FPRS; EPO; DERWENT	OR	OFF	2009/03/19 15: 33
S9	5	("7185657") or ("6162195") or ("5336252") or ("5868770") or ("6558382")).PN.	USPAT	OR	OFF	2009/03/19 15: 35

S10	2	((5972013) or ((5931810))).PN.	USPAT	OR	OFF	2009/03/19 15:40
S11	672	(606/180).COLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:44
S12	626	(606/181).COLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:44
S14	265	(606/184).COLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:45
S15	42	(600/464).COLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:45
S16	1245	(600/485).COLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:45
S17	779	(600/561).COLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:45
S18	783	(600/564).COLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:45
S20	287	(600/566).COLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:46
S21	534	(600/486).COLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:46
S22	724	(604/65).COLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:46
S23	430	(604/66).COLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:46
S24	834	(604/67).COLS.	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:46
S25	572	(606/185).COLS.	USPAT	OR	OFF	2009/03/19 15:46
S26	276	(606/185).COLS.	US-PGPUB	OR	OFF	2009/03/19 15:47
S27	235	(606/170).COLS.	US-PGPUB	OR	OFF	2009/03/19 15:47
S28	1079	(606/170).COLS.	USPAT	OR	OFF	2009/03/19 15:47
S30	15	(heart pericardium) same needle same (suction vacuum) same (sensor\$1 detect\$3) and display	US-PGPUB; USPAT	OR	OFF	2009/03/19 15:56
S32	224	(heart pericardium) and (forceps tongs scissors needle cutting piercing) same (suction vacuum) same (sensor\$1 detect \$3) and display	US-PGPUB; USPAT	OR	OFF	2009/03/19 16:00

S34	566	(forceps tongs scissors needle cutting piercing) same (suction vacuum) same (sensor\$1) and display	US-PGPUB, USPAT	OR	OFF	2009/03/19 16: 11
S35	8	S25 and (vacuum suction) and display	USPAT	OR	OFF	2009/03/19 16: 31
S37	21	S27 and (vacuum suction) and display	US-PGPUB	OR	OFF	2009/03/19 16: 31
S38	68	S28 and (vacuum suction) and display	USPAT	OR	OFF	2009/03/19 16: 31
S40	211	604/65-67.ccls. and (vacuum suction) and display	US-PGPUB, USPAT	OR	OFF	2009/03/19 16: 32
S41	69	606/167.ccls. and (vacuum suction) and display	US-PGPUB; USPAT	OR	OFF	2009/03/19 16: 33
S42	2	S25 and (vacuum suction) and display and lumens	USPAT	OR	OFF	2009/03/19 16: 33
S43	8	S27 and (vacuum suction) and display and lumens	US-PGPUB	OR	OFF	2009/03/19 16: 34
S44	26	S28 and (vacuum suction) and display and lumens	USPAT	OR	OFF	2009/03/19 16: 34
S45	30	604/65-67.ccls. and (vacuum suction) and display and lumens	US-PGPUB; USPAT	OR	OFF	2009/03/19 16: 34
S46	17	606/167.ccls. and (vacuum suction) and display and lumens	US-PGPUB; USPAT	OR	OFF	2009/03/19 16: 34
S47	28	604/65-67.ccls. and (vacuum suction) and display and lumens and sensor\$1	US-PGPUB; USPAT	OR	OFF	2009/03/19 16: 46
S48	10	606/167.ccls. and (vacuum suction) and display and lumens and sensor\$1	US-PGPUB; USPAT	OR	OFF	2009/03/19 16: 47
S51	1044	(catheter endoscope) same (vacuum suction) and display same (pressure ultrasonic optical acoustic electrical)	US-PGPUB, USPAT	OR	OFF	2009/03/19 16: 52
S52	9	S51 and (lateral near (aperture opening groove))	US-PGPUB; USPAT	OR	OFF	2009/03/19 17: 00

S53	1	S51 and (aspiration near (aperture opening groove))	US-PGPUB; USPAT	OR	OFF	2009/03/19 17:01
S55	47	S51 and (side near (aperture opening groove recess))	US-PGPUB; USPAT	OR	OFF	2009/03/19 17:02
S56	98	S51 and (aspiration same (aperture opening groove recess))	US-PGPUB; USPAT	OR	OFF	2009/03/19 17:02
S57	5	US-5336252-\$ DID. OR US-5868770-\$ DID. OR US-5931810-\$ DID. OR US-5972013-\$ DID. OR US-6162195-\$ DID.	USPAT	OR	OFF	2009/03/19 17:22
S58	1271	600/104	US-PGPUB; USPAT	OR	OFF	2009/03/19 17:38
S59	653	600/121	US-PGPUB; USPAT	OR	OFF	2009/03/19 17:38
S60	541	600/104 and (suction vacuum)	US-PGPUB; USPAT	OR	OFF	2009/03/19 17:38
S61	855	(detachable removable) near (suction vacuum)	US-PGPUB; USPAT	OR	OFF	2009/03/19 17:40
S62	278	600/121 and (suction vacuum)	US-PGPUB; USPAT	OR	OFF	2009/03/19 17:45
S63	225	600/104 and (suction vacuum) same (slot groove aperture opening)	US-PGPUB; USPAT	OR	OFF	2009/03/19 17:46
S64	111	600/121 and (suction vacuum) same (slot groove opening recess)	US-PGPUB; USPAT	OR	OFF	2009/03/19 18:16
S65	574	(endoscope catheter) same (suction vacuum) same (slot groove aperture opening) and (display (control near unit))	US-PGPUB; USPAT	OR	OFF	2009/03/20 09:43
S71	1227	(endoscope catheter) same (sensor\$1) near (pressure optical optic\$2 light acoustic electrical ultrasonic)	US-PGPUB; USPAT	OR	OFF	2009/03/20 11:33
S74	463	(endoscope catheter) same (sensor\$1) near (pressure acoustic electrical ultrasonic)	US-PGPUB; USPAT	OR	OFF	2009/03/20 11:40
S75	171	(endoscope catheter) and ((control near unit) display) same (sensor\$1) near (pressure acoustic electrical ultrasonic)	US-PGPUB; USPAT	OR	OFF	2009/03/20 11:40

S76	2	((5449370") or ("6454781").PN.	USPAT	OR	OFF	2009/03/20 12:01
S77	1364	(endoscope catheter) and ((control near unit) display) and (sensor\$1) near (presure acoustic electrical ultrasonic)	US-PGPUB; USPAT	OR	OFF	2009/03/20 12:15
S79	1806	(endoscope catheter) and ((control near unit) display) and (sensor\$1) near (force acoustic electrical ultrasonic)	US-PGPUB; USPAT	OR	OFF	2009/03/20 13:06
S81	2	(presure force acoustic electrical ultrasonic) same sensor\$1	US-PGPUB; USPAT	AND	OFF	2009/03/20 13:22
S85	264	(tactile feedback) same (force acoustic electrical ultrasonic) near sensor\$1 and (endoscope catheter)	US-PGPUB; USPAT	OR	OFF	2009/03/20 13:25
S86	1	("7412289").PN.	USPAT	OR	OFF	2009/03/20 13:50
S91	30	(acoustic electrical) near sensor\$1 same (endoscope)	US-PGPUB; USPAT	OR	OFF	2009/03/20 16:08
S94	11	(pressure near (suction vacuum)) same (endoscope) same (sensor detection)	US-PGPUB; USPAT	OR	OFF	2009/03/20 16:09
S104	43	(acoustic\$2 electrical) near impedance same (endoscope)	US-PGPUB; USPAT	OR	OFF	2009/03/20 16:20
S106	4	acoustic same ultrasonic same sensor\$1 same (endoscope)	US-PGPUB; USPAT	OR	OFF	2009/03/23 07:43
S108	6	(channel\$1 duct\$1) near (taper\$3) same (endoscope)	US-PGPUB; USPAT	OR	OFF	2009/03/23 08:02
S110	486	(channel\$1 duct\$1 lumen \$1) same (taper\$3) same (endoscope)	US-PGPUB; USPAT	OR	OFF	2009/03/23 08:03
S113	18	(channel\$1 duct\$1 lumen \$3) near (taper\$3 flared funnel) same (endoscope)	US-PGPUB; USPAT	OR	OFF	2009/03/23 08:10
S114	74	(channel\$1 duct\$1 lumen \$1) same (taper\$3) same (endoscope) same (suction vacuum)	US-PGPUB; USPAT	OR	OFF	2009/03/23 08:12

S115	548	(channel\$1 duct\$1 lumen \$3) same (taper\$3 flared funnel) same (endoscope)	US-PGPUB; USPAT	OR	OFF	2009/03/23 09:08
S116	97	(channel\$1 duct\$1 lumen \$3) same (taper\$3 flared funnel) same (endoscope) same (suction vacuum)	US-PGPUB; USPAT	OR	OFF	2009/03/23 09:09
S117	1	10/568430	US-PGPUB; USPAT	OR	OFF	2010/03/23 18:45
S118	658	600/104 and (suction vacuum aspiration)	US-PGPUB; USPAT	OR	OFF	2010/03/24 09:35
S120	1	600/104.ccls. and (suction vacuum aspiration) and (calibrat \$4) same class\$3	US-PGPUB; USPAT	OR	OFF	2010/03/24 09:45
S121	196	(600/127).CCLS.	US-PGPUB; USPAT	OR	OFF	2010/03/24 09:46
S122	445	(600/156-157).CCLS.	US-PGPUB; USPAT	OR	OFF	2010/03/24 09:47
S123	277	(600/176-177).CCLS.	US-PGPUB; USPAT	OR	OFF	2010/03/24 09:47
S124	24	600/101.ccls. and calibrat \$3	US-PGPUB; USPAT	OR	OFF	2010/03/24 09:49
S125	460	600/101-183.ccls. and calibrat\$3	US-PGPUB; USPAT	OR	OFF	2010/03/24 09:50
S126	11	600/101-183.ccls. and calibrat\$3 same (suction vacuum aspirat\$3)	US-PGPUB; USPAT	OR	OFF	2010/03/24 09:50
S127	17	606/167-185.ccls. and calibrat\$3 same (suction vacuum aspirat\$3)	US-PGPUB; USPAT	OR	OFF	2010/03/24 09:52
S128	5	600/101-183.ccls. and calibrat\$3 same (suction vacuum aspirat\$3) same pressure	US-PGPUB; USPAT	OR	OFF	2010/03/24 09:57
S129	7	606/167-185.ccls. and calibrat\$3 same (suction vacuum aspirat\$3) same pressure	US-PGPUB; USPAT	OR	OFF	2010/03/24 09:57
S130	2	604/264.ccls. and calibrat \$3 same (suction vacuum aspirat\$3) same pressure	US-PGPUB; USPAT	OR	OFF	2010/03/24 10:07
S131	178	(600/565).CCLS.	US-PGPUB; USPAT	OR	OFF	2010/03/24 10:11
S132	24	606/167-185.ccls. and tissue near detect\$3	US-PGPUB; USPAT	OR	OFF	2010/03/24 10:12

3/24/2010 6:20:31 PM

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